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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/693,125	10/24/2003	James R. Gallivan	PD-03W068	1689	
RAYTHEON (	7590 12/17/2007 COMPANY		EXAM	EXAMINER  ROBINSON, DANIEL LEON  ART UNIT PAPER NUMBER	
Patent Docket Administration			ROBINSON, DANIEL LEON		
Bldg. EO/E4/N P.O. Box 902	119		ART UNIT	PAPER NUMBER	
El Segundo, CA	A 90245		3742		
			MAIL DATE	DELIVERY MODE	
			12/17/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	_	Application No.	Applicant(s)	
		10/693,125	GALLIVAN ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Daniel L. Robinson	3742	
<i> TI</i> Period for R	he MAILING DATE of this communication appepting	pears on the cover sheet w	ith the correspondence ac	ldress
WHICHE - Extensions after SIX ( - If NO perior - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY VER IS LONGER, FROM THE MAILING DAS OF time may be available under the provisions of 37 CFR 1.1 (6) MONTHS from the mailing date of this communication. By the properties of the provision of the properties of the provision of the properties of the provision of th	ATE OF THIS COMMUNION (36(a). In no event, however, may a rewill apply and will expire SIX (6) MONON, cause the application to become AB	CATION. reply be timely filed  NTHS from the mailing date of this of the second state	
Status ्				
1)⊠ Re	sponsive to communication(s) filed on <u>07 S</u>	eptember 2007.		
2a)☐ Thi	s action is <b>FINAL</b> . 2b)⊠ This	action is non-final.		
	ce this application is in condition for allowa			e merits is
clo	sed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	). 11, 453 O.G. 213.	
Disposition	of Claims			
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	tim(s) 1,2,4,6-14,17 and 18 is/are pending in Of the above claim(s) is/are withdraw tim(s) is/are allowed.  tim(s) 1,2,4,6-14 and 17-18 is/are rejected.  tim(s) is/are objected to.	wn from consideration.		
8)∐ Cla	im(s) are subject to restriction and/o	r election requirement.		
Application	Papers			
10)∭ The App Rep	e specification is objected to by the Examine drawing(s) filed on is/are: a) accollicant may not request that any objection to the placement drawing sheet(s) including the correct oath or declaration is objected to by the Ex	epted or b) objected to drawing(s) be held in abeyar tion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 C	
Priority und	er 35 U.S.C. § 119			
a)	Certified copies of the priority document Certified copies of the priority document	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	Application No received in this National	Stage
	•			
Attachment(s)				
2) Notice of 3) Information	References Cited (PTO-892)  Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO/SB/08) (s)/Mail Date	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application	

## Election/Restrictions

Applicant's election without traverse of Species A, Claims 1, 2, 4, 6-14 and 17-18 in the reply filed on 9-7-2007 is acknowledged.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 9-14 an d17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burdon et al.(U.S.Pat.6,572,830) in view of Riemer et al.(U.S.Pat.5,886,671). Burdon discloses an integrated multilayered microfludic devices and methods of making the same that shows all the features of the claimed invention but fails to explicitly show an array comprised of wafers. Riemer discloses a low-cost communication phased array antenna system that shows a reflection system that redirects waves and uses an antenna array. It would have been obvious to one of ordinary skill top combine the features of Riemer with the device of Burden so as to low cost and much thinner system.

Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burdon et al.(U.S.Pat.6,572,830) in view of Brown et al.(U.S.Pat.6,765,535) as applied

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to claims 1-5 and 9-19 above, and further in view of Dion et al.(U.S.Pat.5,101,086).

Burdon et al.(U.S.Pat.6,572,830) in view of Brown et al.(U.S.Pat.6,765,535) does not

explicitly show a surface sensor. Dion discloses an electromagnetic inductor with ferrite

core for heating electrically conductive material that explicitly shows a surface sensor. It

would have been obvious to one of ordinary skill to use a surface sensor to create a

patterned temperature profile.

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Geisler, Bridges andf Moore are cite dto show structure similar to

the claimed invention.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Daniel L. Robinson whose telephone number is 571-

272-4788. The examiner can normally be reached on m-f 5:30-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tu B Hoang can be reached on 571-272-4780. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

dlr

DAMEL ROBINSON PRIMARY EXAMINER